IN THE CLAIMS:

Kindly replace the claims of record with the following full set of claims:

1. (Currently amended) An audio-visual system for processing video data comprising:

an object detection module capable of providing a plurality of object features from the video data;

an audio processor module capable of providing a plurality of audio features from the video data;

a processor coupled to the object detection and the audio segmentation modules, arranged to determine a maximum correlation value among a plurality of correlation values between the plurality of object features and the plurality of audio features, wherein said correlation values are determined as the sum of [[the]] elements [[of]] in a subset of [[between]] said audio features selected from the group consisting of: two or more of the following: average energy, pitch, zero crossing, bandwidth, band central, roll off, low ratio, spectral flux and 12 MFCC components, and selected object features.

- 2. (Original) The system of claim 1, wherein the processor is further arranged to determine whether an animated object in the video data is associated with audio.
- 3. (Cancelled)

- 4. (Original)The system of claim 2, wherein the animated object is a face and the processor is arranged to determine whether the face is speaking.
- 5. (Previously presented) The system of claim 4, wherein the plurality of object features are eigenfaces that represent global features of the face.
- 6. (Previously presented) The system of claim 1, further comprising:

a latent semantic indexing module coupled to the processor and that preprocesses the plurality of object features and the plurality of audio features before the correlation is performed.

- 7. (Original) The system of claim 6, wherein the latent semantic indexing module includes a singular value decomposition module.
- 8. (Currently amended)A method for identifying a speaking person within video data, the method comprising the steps of:

receiving video data including image and audio information;

determining a plurality of face image features from one or more faces in the video data;

determining a plurality of audio features related to audio information;

calculating correlation values between the plurality of face image features and the audio features, wherein said correlation values are determined as the sum of [[the]]

elements [[of]] <u>in</u> a subset [[between]] said audio features <u>selected from the group</u> consisting of two or more of the following: average energy, pitch, zero crossing, <u>bandwidth</u>, <u>band central</u>, roll off, low ratio, spectral flux and 12 MFCC components, and <u>said face image features</u> [[selected object feature]]; and

determining the speaking person based on a maximum of the correlation values.

- 9. (Currently amended) The method according to claim 8, further comprising the step of : normalizing the face image features and the audio features.
- 10. (Currently amended) The method according to claim 9, further comprising the step of:

performing a singular value decomposition on the normalized face image features and the audio features.

- 11. (Original) The method according to claim 8, wherein the determining step includes determining the speaking person based upon the one or more faces that has the largest correlation.
- 12. (Original) The method according to claim 10, wherein the calculating step includes forming a matrix of the face image features and the audio features.

13. (Previously presented) The method according to claim 12, further comprising the step of:

performing an optimal approximate fit using smaller matrices as compared to full rank matrices formed by the face image features and the audio features.

- 14. (Original) The method according to claim 13, wherein the rank of the smaller matrices is chosen to remove noise and unrelated information from the full rank matrices.
- 15. (Currently amended) A memory medium including code for processing a video including images and audio, the code comprising:

code to obtain a plurality of object features from the video; code to obtain a plurality of audio features from the video;

code to determine correlation values between the plurality of object features and the plurality of audio features, wherein said correlation values are determined as the sum of [[the]] elements [[of]] in a subset of [[between]] said audio features selected from the group consisting of two or more of the following: average energy, pitch, zero crossing, bandwidth, band central, roll off, low ratio, spectral flux and 12 MFCC components, and selected object features [[feature]]; and

code to determine an association between one or more objects in the video and the audio based on a maximum of the correlation values.

16. (Original)The memory medium of claim 15, wherein the one or more objects comprises one or more faces.

- 17. (Original)The memory medium of claim 16, further comprising code to determine a speaking face.
- 18. (Currently amended)The memory medium of claim 15, further comprising:

 code to create a matrix using the plurality of object features and the audio features
 and code to perform a singular value decomposition on the matrix.
- 19. (Currently amended)The memory medium of claim 18, further comprising:

 code to perform an optimal approximate fit using smaller matrices as compared
 to full rank matrices formed by the object features and the audio features.
- 20. (Original)The memory medium according to claim 19, wherein the rank of the smaller matrices is chosen to remove noise and unrelated information from the full rank matrices.